

# SuperServer F617R2-F73



Available Colors:      Black   

## Key Features

### 8 Hot-plug System Nodes in 4U Each node supports:

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 512GB ECC DDR3, up to 1866MHz; 8x DIMM slots
3. Expansion slot: 1 PCI-E 3.0 x16 (LP) via riser card
4. I/O ports: 2 GbE ports, 1 Built-in video, 1 COM port onboard, 2 USB 2.0 ports
5. Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
6. 2 Hot-swap 2.5" SAS2 HDD Bays via LSI 2308
8. 1620W Redundant Power Supplies Platinum Level (94%)

Note: Image above may show a varied configuration or optional parts. Please refer to parts list for standard parts included.

## Specifications

### Product SKUs

SYS-F617R2-F73      ■ SuperServer F617R2-F73 (Black)

### Motherboard

Super X9DRFF-7

### Processor/Cache

CPU      ■ Dual Socket R (LGA 2011)  
 ■ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 135W TDP \*)  
 \* Please contact your Supermicro sales representative for additional details

Note      † BIOS version 3.0 or above is required

Cache      ■ Up to 30MB

System Bus      ■ QPI up to 8 GT/s

### System Memory (per node)

Memory Capacity      ■ 8x 240-pin DDR3 DIMM slots  
 ■ Up to 512GB DDR3 ECC LRDIMM  
 ■ Up to 256GB DDR3 ECC Registered memory (RDIMM)

### Chassis

Form Factor      ■ 4U Rackmount  
 Model      ■ CSE-F418IL-R1K62B

### Dimensions

Width      ■ 17.63" (448mm)  
 Height      ■ 6.96" (177mm)  
 Depth      ■ 29" (737mm)  
 Package      ■ 28.3" (W) x 15.0" (H) x 42.4" (D)  
 Weight      ■ Net Weight: 150 lbs (68.04 kg)  
                 ■ Gross Weight: 200 lbs (90.71 kg)  
 Available Colors      ■ Black

### Front Panel

Buttons      ■ Power On/Off button  
                 ■ System Reset button  
 LEDs      ■ Power status LED  
                 ■ 2x Network activity LEDs  
                 ■ System Overheat LED  
                 ■ Power fail LED

### Expansion Slots (per node)

PCI-      ■ 1x PCI-E 3.0 x16 Low-profile via riser

	Up to 64GB DDR3 ECC Un-Buffered memory (UDIMM)
Memory Type	<ul style="list-style-type: none"> <li>1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs</li> </ul>
DIMM Sizes	<ul style="list-style-type: none"> <li>32GB, 16GB, 8GB, 4GB, 2GB, 1GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>

#### On-Board Devices

Chipset	<ul style="list-style-type: none"> <li>Intel® C602 Chipset</li> </ul>
AHCI SATA	<ul style="list-style-type: none"> <li>SATA 2.0 3Gbps with RAID 0, 1, 5, 10</li> <li>SATA 3.0 6Gbps with RAID 0, 1</li> </ul>
SAS	<ul style="list-style-type: none"> <li>SAS2 via LSI 2308</li> <li>SW RAID 0, 1, 10 support</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>Nuvoton WPCM450 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® 82574L Dual Port Gigabit Ethernet</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>Matrox G200eW</li> </ul>

#### Input / Output (per node)

AHCI SATA	<ul style="list-style-type: none"> <li>2x SATA 3.0 ports (6Gbps)</li> <li>4x SATA 2.0 ports (3Gbps)</li> </ul>
SAS	<ul style="list-style-type: none"> <li>8x SAS 2.0 ports (6Gbps)</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>2x USB 2.0 ports</li> </ul>
VGA	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1x Fast UART 16550 port</li> </ul>

Express card

#### Drive Bays (per node)

Hot-swap    

- 2x Hot-swap 2.5" SAS2/SATA HDD trays

#### Backplane

1x SAS2 / SATA backplane

#### System Cooling

Fans    

- 8x 8cm 11k RPM middle fans

#### Power Supply

1620W high-efficiency redundant power supply w/ PMBus

AC Input    

- 1000W Output @ 100-120V, 12-10A, 50-60Hz
- 1200W Output @ 120-140V, 12-10A, 50-60Hz
- 1620W Output @ 180-240V, 10.5-8A, 50-60Hz

DC Output    

- 1000W: +12V/84A; +5Vsb/4A
- 1200W: +12V/100A; +5Vsb/4A
- 1620W: +12V/150A; +5Vsb/4A

Certification



Platinum Certified  
[ [Test Report](#) ]

#### System BIOS

BIOS Type    

- 128Mb SPI Flash EEPROM with AMI BIOS

BIOS Features    

- Plug and Play (PnP)
- APM 1.2
- PCI 2.2
- ACPI 1.0 / 2.0
- USB Keyboard support
- SMBIOS 2.3
- UEFI

#### Operating Environment / Compliance

RoHS    

- RoHS Compliant

Environmental Spec.    

- Operating Temperature: 10°C to 35°C (50°F to 95°F)
- Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X9DRFF-7	8	Super X9DRFF-7 Motherboard
	CSE-F418IL-R1K62B	1	4U Chassis
<b>Backplane</b>	BPN-SAS-F418-B2R	8	Backplane for two 2.5" hogplug SAS/SATA hard drives (HDD & SSD), no SGPIO/SES/i2c support, for Fat Twin Chassis.
<b>Cable 1</b>	CBL-0473L	16	21cm 30AWG SATA S-S cable
<b>Cable 2</b>	CBL-0486L	8	2x2 to 2x2 15cm power cable HF. 18AWG
<b>Riser Card</b>	RSC-R1UFF-E16	8	1U LHS FatTwin Riser Card with PCI-E x16
<b>Heatsink / Retention</b>	SNK-P0047PF	8	1U Passive Rear CPU Heat Sink for 1U Node Rear I/O Fat Twin Servers
<b>Heatsink / Retention</b>	SNK-P0047P	8	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Square ILM MB
<b>Mounting Rail</b>	MCP-290-41803-0N	1	Fat twin F418 / F424 Rail set support 28-33.5 inch depth rail,RoHS/REACH,PBF

### Optional Parts List

	Part Number	Qty	Description
<b>Software</b>	SFT-OOB-LIC	8	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	8	DataCenter Management Package (per node license)